

Pine Bend Refinery

ENVIRONMENTAL DEPARTMENT

P.O. Box 64596 Saint Paul, Minnesota 55164 651.437.0700

December 7, 2017

CERTIFIED MAIL RETURN RECEIPT REQUESTED

Air Quality Compliance Tracking Coordinator Air Quality Division Minnesota Pollution Control Agency 520 Lafayette Road St. Paul, MN 55155-4194 RECEIVED

DEC 19 2017

AIR ENFORCEMENT BRANCH U.S. EPA REGION 5

RE: 40 CFR 60 Subpart Kb Update, November 2017

To whom it may concern:

The attached tables provide updates on NSPS Kb tank inspections at the Flint Hills Resources Pine Bend Refinery in Rosemount, Minnesota to satisfy the notification requirements in 40 CFR § 60.113b(a)(5) and 40 CFR § 60.113b(b)(5) and CFR § 60.113b(b)(6)(ii).

Pursuant to 40 CFR § 60.115b(a)(3), the following tanks did not meet specifications for the annual internal floating roof tank seal inspection: No IFR tanks failed to meet inspection criteria in the month of November.

Pursuant to 40 CFR § 60.115b(a)(4), the following tanks did not meet specifications for the internal floating roof tank seal inspection: No IFR tanks failed to meet inspection criteria in the month of November.

Pursuant to 40 CFR § 60.115b(b)(4), the following tanks did not meet specifications for external floating roof tank seal inspections: 94B7A and 94B7B had secondary seal gap measurements completed in the month of November. They are both tanks/basins subject to NESHAP FF following the requirements of Kb. 94B7A secondary seal exceeded the Kb gap allowances, and had a damaged mixer boot requiring repair. 94B7B secondary seal exceeded the Kb gap allowances. FHR PB has entered work orders to repair the secondary seals of 94B7A and 94B7B within 45 days (WO#494764 and WO#494768), and also has a work order to repair the worn mixer boot on 94B7A within 15 days to meet NESHAP FF repair requirements (WO#494761).

Additionally, please note that the 2018 Kb Inspection Schedule is attached to this letter.

If you have any questions regarding this letter, or if you would like to be present at any of the planned tank inspections, please contact me at (651) 438-7769.

Sincerely,

Tom Lawrence

Tanks Program Owner

Cc: Dan Dietrich, MPCA

Director; Air and Radiation Division, US EPA Region V

Flint Hills Resources Pine Bend Refinery

TANK	ROOF TYPE	ACTION	Past Date	SCHEDULED DATE	FOLLOW-UP FROM INSPECTION
			Completed	Scheduled	
086TK002	EFR	5 year primary inspection and seal gap measurement	4/27/2015	4/2020	
			Completed	Scheduled	
086TK003	EFR	5 year primary inspection and seal gap measurement	4/26/2016	4/2021	<u> </u>
			Completed	Scheduled	
086TK004	EFR	5 year primary inspection and seal gap measurement	4/23/2013	4/2018	
-			Completed	Scheduled	
086TK006	EFR	5 year primary inspection and seal gap measurement	3/4/2014	3/2019	
			Completed	Scheduled	
086TK007	EFR	5 year primary inspection and seal gap measurement	5/21/2014	5/2019	
			Completed	Scheduled	1
086TK061	EFR	5 year primary inspection and seal gap measurement	4/11/2013	4/2018	
			Completed	Scheduled	
086TK062	EFR	5 year primary inspection and seal gap measurement	4/2/2014	4/2019	
			Completed	Scheduled	
086TK066	EFR	5 year primary inspection and seal gap measurement	3/5/2014	3/2019	
•			Completed	Scheduled	i
086TK068	EFR	5 year primary inspection and seal gap measurement	4/2/2014	4/2019	
			Completed	Scheduled	
086TK083	EFR	5 year primary inspection and seal gap measurement	4/10/2014	4/2019	
,			Completed	Scheduled	
086TK087	EFR	5 year primary inspection and seal gap measurement	4/10/2013	4/2018	
			Completed	Scheduled	
086TK088	EFR	5 year primary inspection and seal gap measurement	4/24/2013	4/2018	
! !			Completed	Scheduled	
086TK150	EFR	5 year primary inspection and seal gap measurement	4/15/2014	4/2019	
			Completed	Scheduled	
086TK151	EFR	5 year primary inspection and seal gap measurement	4/4/2013	4/2018	<u> </u>
			Completed	Scheduled	
086TK152	EFR	5 year primary inspection and seal gap measurement	4/13/2015	4/2020	
			Completed	Scheduled	
94V49	EFR	5 year primary inspection and seal gap measurement	10/29/2013	10/2018	
	一上的技術性變				Repairs required/scheduled
		Annual visual inspection and secondary seal gap	Completed	Completed	WO#494764
094B-7A East	EFR	measurement	11/9/2016	11/21/2017	WO#494761
05.52.77.2001		***************************************	Completed	Scheduled	1, 100,000
094B-7A East	EFR	5 year primary inspection and seal gap measurement	11/9/2016	11/2021	
Teldita		Annual visual inspection and secondary seal gap	Completed	Scheduled	Repairs required/scheduled
094B-7B West	ËFR	measurement	11/9/2016	11/21/2017	WO#494768
30 /2 /2 // 00/	<u> </u>	Thousand the same and	Completed	Scheduled	
094B-7B West	EFR	5 year primary inspection and seal gap measurement	11/9/2016	11/2021	
13.2.2.2.03(- year Finner, mereanismana oodi gap modooromont	New seal	11/2021	
			installation	Scheduled	
94TK064	EFR	Initial 5 year primary inspection and seal gap measurement	during TA	3/2018	
	<u> </u>	miles. Types printery inoposition and sour gap measurement	New seal	U,2010	
		Initial Annual visual inspection and secondary seal gap	installation	Scheduled	
94TK064	EFR	measurement	during TA	3/2018	

Note: Tank 94TK64 is currently in turnaround and will have new seals installed. Tentative schedule for refill is 3/2018 and the primary and secondary seal gaps will be measured within 60-days of tank filling.

2017 Current Kb-related Activity

Flint Hills Resources

Pine Bend Facility

Note: Notifications are reflected for Internal and External Floating Roofs.

TANK	ROOF TYPE	Date of 30-day notification	ANTICIPATED FILL DATE	
			3/1/2018	
94TK6 <u>4</u>	EFR	6/9/2017	(Updated to reflect current anticipated refill schedule)	
88TK523	IFR	10/6/2017	1/1/2018 (Updated to reflect current anticipated refill schedule)	
86TK18	IFR	6/9/2017	2/1/2018 (Updated to reflect current anticipated refill schedule)	

FHR is supplying this information to meet the refill notification obligations of 40 CFR § 60.113b. FHR will include tanks on this list as refill dates become known and will provide any necessary updates in subsequent monthly reports.

PETROLEUM OR VOLATILE LIQUID STORAGE VESSEL EXTERNAL FLOATING ROOF SECONDARY SEAL GAP MAXIMUM WIDTH AND ACCUMULATED GAP AREA TEST RESULTS

Subpart Kb: For Vessels With a Capacity Greater than 75 m³ and Construction, Reconstruction or Modification after 7/23/84

FACILITY NAME	Flint Hills Re	sources		TEST DATE	11	1/21/2017	
VESSEL NO.		94B-7A		INSPECTOR	Jordan Her	nderson	
VESSEL CAPACITY							
VESSEL CONSTRUCT	TION DATE	1/1/1976		PRIMARY SE	AL TYPE:		Liquid-Mounted
North							Vapor-Mounted
	16 1	5					Metallic Shoe
17			14	METALLIC SH	HOE SEAL:		
br			9			П	Yes
				One end is su	bmeraed	Ħ	No
74.5	ast basin			into stored liqu		7	Does Not Apply
, A- E	ast Dasiii		ĺ			 ,	
			- 1	Other end ext	ends a		Yes
Failed caulking				minimum of v	ertical distanc	e 🗍	No
on mixer bootO				of 61 cm (24 i			Does Not Apply
1		2-13	#	, —	,,		, , , , , , , , , , , , , , , , , , ,
_		2-13					
		SI	ECON	IDARY SEAL			
「 Meta	allic Shoe				Г		1
	or				Ĭ	Vapo	r-
Liquid	d-Mounted					Mount	
Accumulated				Accumu	ılated		
Gap Area	_	Allowable_		Gap <i>A</i>	Area		Allowable
37.2961 cm ² /m		21.2		NA	cm²/m		21.2
1.761935 in ² /ft	Fail	1		NA	in ² /ft		1
Maximum Gap Width		Allowable		Maximum Ga	p Width		Allowable
	-						
2.54 cm		1.27		NA ·	cm		1.27
1 in	F ail	0.5		NA	in		0.5
Observe	d Number of				Observed Nu	mber of	
Holes, Tea	rs or Openin			Но	oles, Tears or	Opening	S
		Allowable					Allowable
Shoe	NA	0		Shoe	_	NA	0
Seal Fabric	1	0		Seal Fabric	_	NA	0
Seal Envelope	1	_ 0		Seal Envelop	e _	NĀ	0
00111451550						-	

COMMENTS:

Basin covers operating as designed. The secondary seal gaps are outside allowable limits for maximum gap width and accumulated gap. WO# 494764 was created to have seal adjusted/repaired within 45 days. Due on or before 1/4/2018. One mixer boot was found to be weathered and holed through. WO#494761 was created to repair/replace mixer boot within 15 days. Due on or before 12/5/2017.

SEAL GAP AREA FIELD DATA AND CALCULATION SUMMARY

Subpart Kb: For Vessels With a Capacity Greater than 75 m³ and Capacity Street Recognitive Capacity Street C

		Construction, R	econstruction o	or Modification a	ıfter 7/23/84	
VECCE	NO	040 74	DATE			
VESSEL		94B-7A	DATE	_	11/21/2017	
	DIAMETER	48.52179214 m	INSPECTOR		Jordan Hend	erson
Helative	Diameter	<u>159.2</u> ft		CEAL	Primary	
E00 # ==	ri 1 0 1 1 1 1	1500		SEAL:	Canandami	[7]
500 ft pe	rimeter / 3.1416	0 = 109.2			Secondary	
Gap No.	Gap	Width	Gap Circu	mferential	Tota!	Gap
	>1/8 in. dia.	>0.32 cm dia	Len		Surface	
	(in.)	(cm)	(in.)	(cm)	(in²)	(cm²)
1	0.13	0.3302	100	254	13	83.8708
2	0.25	0.635	80	203.2	20	129.032
3	0.375	0.9525	30	76.2	11,25	72.5805
4	0.5	1.27	30	76.2	15	96.774
5	0.25	0.635	20	50.8	5	32.258
6	0.25	0.635	20	50.8	5	32.258
7	0.375	0.9525	50	127	18.75	120.9675
8	0.25	0.635	20	50.8	5	32.258
9	0.5	1.27	20	50.8	10	64.516
10	1	2.54	20	50.8	20	129.032
11	0.625	1.5875	10	25.4	6.25	40.3225
12	0.5	1.27	10	25.4	5	32.258
13	0.375	0.9525	30	76.2	11,25	72.5805
14	0.375	0.9525	36	91.44	13.5	87.0966
15	0.25	0.635	40	101.6	10	64.516
16	0.25	0.635	50	127	12.5	80.645
17	1	2.54	90	228.6	90	580.644
18	0.375	0.9525	24	60.96	9	58.0644
19		0		0	0	0
20		0		0	0	0
21		0		0	0	0
22		0		0	0	0
23		0		0	0	0
24		0		0	0	0
25		0		0	0	0
26		0		0	0	0
27		0		0	0	0
28		0		0	0	0
29		0		0	0	0
30		0		0	0	0
31				0	0	0
32		0		0	0	0
33		0		0	0	0
34		0		0	0	0
35		0		0	0	0
36		0		0	0	0
					280.5	_1809.674 TOTAL
					2.54	cm
			Maximum Gap	Width =	1	in
Accumu	lated Gap Are	a Per Meter of Tar	nk Diameter:			
			2			3.
	Total Ac	cumulated Gap Ar	ea, cm ⁴	=	37.296104	cm²/m
	Dia	meter of the Vesse	l, m			
_				i		
Accumu	liated Gap Are	a Per Foot of Tani	k Diameter:			
			. 2			. 2
	Total A	ccumulated Gap A	rea, in	=	1.7619347	in"/ft

Diameter of the Vessel, ft

Inspector: Jordan Henderson

Report Date: 11/21/2017

PETROLEUM OR VOLATILE LIQUID STORAGE VESSEL EXTERNAL FLOATING ROOF SECONDARY SEAL GAP MAXIMUM WIDTH AND ACCUMULATED GAP AREA TEST RESULTS

Subpart Kb: For Vessels With a Capacity Greater than 75 m³

Construction, Reconstruction or Modification after 7/23/84

FACILITY NAME	Flint Hills Resou		TEST DATE 11/21/2017	
VESSEL NO.		94B-7B	INSPECTOR Jordan Henderson	<u>1</u>
VESSEL CAPACITY VESSEL CONSTRUC North	CTION DATE	1/1/1976	PRIMARY SEAL TYPE:	☑ Liquid-Mounted☑ Vapor-Mounted
1 2-8	9 10			☐ Metallic Shoe
			METALLIC SHOE SEAL:	☐ Yes
		11-17	One end is submerged	□ No
7B-	West basin		into stored liquid	Does Not Apply
h —		[18 [Other end extends a	☐ Yes
27	20-26 19		minimum of vertical distance	☐ No
	اسا السندي		of 61 cm (24 in.) above liquid	✓ Does Not Apply
		2522	15457.0541	
ГМа	tallic Shoe	SECO	NDARY SEAL	1
IVIE	or		ļ ,	Vapor-
Liqu	id-Mounted _			1ounted]
Accumulated			Accumulated	
Gap Area	_AI	lowable	Gap Area	Allowable
			2,	24.2
137.9564 cm ² /m	P* . 11	21.2	NA cm²/m NA in²/ft	21.2
6.517305 in ² /ft	Fail	1	NAin ² /ft	1
Maximum Gap Width	<u>Ai</u>	lowable	Maximum Gap Width	Allowable
2.54 cm		1.27	NA cm	1.27
1 in	Fail	0.5	NA in	0.5
Obser	ved Number of		Observed Numbe	er of
Holes, Te	ears or Openings		Holes, Tears or Ope	
		lowable		Allowable
Shoe	NA	0		<u>VA</u> 0
Seal Fabric	0	0		NA 0
Seal Envelope		0	Seal Envelope	<u>NA</u> 0
COMMENTS:				
•	•	•	al gaps are outside allowable limits	• •
	ngth. WO#49470	68 was created to	o have the seal adjusted/repaired	d within 45 days. Due on or
before 1/4/2018.				

SEAL GAP AREA FIELD DATA AND CALCULATION SUMMARY

Subpart Kb: For Vessels With a Capacity Greater than 75 m³ and Construction, Reconstruction or Modification after 7/23/84

VESSEL NO. 94B-7B		DATE	11/21/2017			
VESSEL	DIAMETER	48.52179214 m	INSPECTOR	Jordan Henderso	n	
Relative	Diameter	159.2 ft			- Primary	
				SEAL:		
500 ft pe	erimeter / 3.1410	6 = 159.2		·	Secondary	\Box
			•		_	
Con No	Can	1811dah	Con Cina		T-1-1	0
Gap No.		Width	•	umferential	Total	•
	>1/8 in. dia.	>0.32 cm dia		ength	Surfac	
	(in.)	(cm)	(in.)	(cm)	(in²)	(cm²)
1	0.25	0.635	40	101.6	10	64.516
2	0.25	0.635	120	304.8	30	193.548
3	0.5	1.27	240	609.6	120	774.192
4	0.375	0.9525	60	152.4	22.5	145.161
5	0.25	0.635	58	147.32	14.5	93.5482
6	0.375	0.9525	20	50.8	7.5	48.387
7	0.625	1.5875	75	190.5	46.875	302.4188
8	0.25	0.635	30	76.2	7.5	48.387
9	0.25	0.635	70	177.8	17.5	112.903
10	0.25	0.635	60	152.4	15	96.774
11	0.13	0.3302	36	91.44	4.68	30.19349
12	0.25	0.635	50	127	12.5	80.645
13	0.5	1.27	70	177.8	35	225.806
14	0.625	1.5875	180	457.2	112.5	725.805
15	1	2.54	300	762	300	1935.48
16	0.625	1.5875	96	243.84	60	387.096
17	0.25	0.635	36	91.44	9	58.0644
18	0.375	0.9525	48	121.92	18	116.1288
19	0.25	0.635	160	406.4	40	258.064
20	0.5	1.27	24	60.96	12	77.4192
21	0.375	0.9525	12	30.48	4.5	29.0322
22	0.75	1.905	36	91.44	27	174.1932
23	0.5	1.27	34	86.36	17	109.6772
24	0.25	0.635	12	30.48	3	19.3548
25	0.375	0.9525	36	91.44	13.5	87.0966
26	0.25	0.635	30	76.2	7.5	48.387
27	0.5	1.27	140	355.6	70	451.612
28	0	0	0	0	0	0
29	0	0	0	0	0	0
30	0	0	0	0	0	0
31	0	0	0	0	0	0
					1037.555	6693.89 TOTAL
			Massimas Cas	14/:	2.54	cm
Accumi	ulated Gan Are	a Per Meter of Tan	Maximum Ga	p wiatn =	1	in
Accumi	=		_		407.0504	2/
		ccumulated Gap Arameter of the Vesse		=	137.9564	cm²/m
A						
Accumi	•	a Per Foot of Tank	_			
		Accumulated Gap A		=	6.517305	in ² /ft
	Dia	ameter of the Vesse	el, ft			
	Inspector	lordan Handaras	n /			
	Inspector:	Jordan Henderso	<u>"</u>			
	Report Date:	11/21/2017				

TANK	ROOF TYPE	ACTION	Past Date	SCHEDULED DATE
088TK523	IFR	Annual visual inspection	Completed 2/8/2017	Scheduled 2/2018
094B-7A East	EFR	Annual visual inspection and secondary seal gap measurement	2/13/2017	Scheduled 2/2018
094B-7B West	EFR	Annual visual inspection and secondary seal gap measurement	Completed 2/13/2017	Scheduled 2/2018
086TK011	IFR	Annual visual inspection	Completed 3/27/2017	Scheduled 3/2018
086TK012	IFR	Annual visual inspection	Completed 3/20/2017	Scheduled 3/2018
086TK014	IFR	Annual visual inspection	Completed 3/13/2017	Scheduled 3/2018
086TK016	IFR	Annual visual inspection	Completed 3/13/2017	Scheduled 3/2018
086TK023	IFR	Annual visual inspection	Completed 3/08/2017	Scheduled 3/2018
086TK028	IFR	Annual visual inspection	Completed 3/07/2017	Scheduled 3/2018
086TK048	IFR	Annual visual inspection	Completed 3/08/2017	Scheduled 3/2018
094TK063	EFR	Annual visual inspection and secondary seal gap measurement	Completed 3/14/2017	Scheduled 3/2018
094TK063	EFR	5 year primary inspection and seal gap measurement	Completed 3/14/2017	Scheduled 3/2022
086TK161	IFR	Annual visual inspection	Completed 3/28/2017	Scheduled 3/2018
094TK205	IFR	Annual visual inspection	3/21/2017	Scheduled 3/2018
094TK206	IFR	Annual visual inspection	Completed 3/21/2017	Scheduled 3/2018
088TK522	IFR	Annual visual inspection	Completed 3/21/2017	Scheduled 3/2018
086TK001	EFR	Annual visual inspection and secondary seal gap measurement	Completed 4/06/2017	Scheduled 4/2018
086TK001	EFR	5 year primary inspection and seal gap measurement	Completed 4/06/2017	Scheduled 4/2022
086TK002	EFR	Annual visual inspection and secondary seal gap measurement	Completed 4/05/2017	Scheduled 4/2018
086TK002	EFR	5 year primary inspection and seal gap measurement	4/27/2015	4/2020
086TK003	EFR	Annual visual inspection and secondary seal gap measurement	Completed 4/06/2017	Scheduled 4/2018
086TK003	EFR	5 year primary inspection and seal gap measurement	Completed 4/26/2016	Scheduled 4/2021

TANK	ROOF TYPE	ACTION	Past Date	SCHEDULED DATE
		Annual visual inspection and secondary seal gap	Completed	Scheduled
086TK004	EFR	measurement	4/27/2017	4/2018
			Completed	Scheduled
086TK004	EFR	5 year primary inspection and seal gap measurement	4/23/2013	4/2018
		Annual visual inspection and secondary seal gap	Completed	Scheduled
086TK005	EFR	measurement	4/12/2017	4/2018
			Completed	Scheduled
086TK005	EFR	5 year primary inspection and seal gap measurement	4/12/2017	4/2022
00071/000	F-F-0	Annual visual inspection and secondary seal gap	Completed	Scheduled
086TK006	EFR	measurement	4/25/2017	4/2018
00071/000		5	Completed	Scheduled
086TK006	EFR	5 year primary inspection and seal gap measurement	3/4/2014	4/2018
000TK007		Annual visual inspection and secondary seal gap	Completed	Scheduled
086TK007	EFR	measurement	4/12/2017	4/2018 Scheduled
086TK007	EED	5 year primary inspection and seal gap measurement	Completed 5/21/2014	5/2019
0001 K007	EFR	Annual visual inspection and secondary seal gap	Completed	Scheduled
086TK061	EFR	measurement	4/03/2017	4/2018
00011001	EFN	measurement	Completed	Scheduled
086TK061	EFR	5 year primary inspection and seal gap measurement	4/11/2013	4/2018
00011001	LITT			
OOCTKOCO	FCD	Annual visual inspection and secondary seal gap	Completed	Scheduled
086TK062	EFR	measurement	4/03/2017	4/2018 Scheduled
086TK062	EFR	E year primary inspection and seel gap messurement	Completed 4/2/2014	4/2019
U001 KU02	EFN	5 year primary inspection and seal gap measurement Annual visual inspection and secondary seal gap	Completed	Scheduled
086TK066	EFR	measurement	4/05/2017	4/2018
0001K000	<u> </u>	measurement	Completed	Scheduled
086TK066	EFR	5 year primary inspection and seal gap measurement	3/5/2014	4/2018
00011000	<u> </u>	Annual visual inspection and secondary seal gap	Completed	Scheduled
086TK068	EFR	measurement	10/2/2017	4/2018
000111000		measurement	Completed	Scheduled
086TK068	EFR	5 year primary inspection and seal gap measurement	10/2/2017	10/2022
000111000		Annual visual inspection and secondary seal gap	Completed	Scheduled
086TK080	EFR	measurement	4/05/2017	4/2018
			Completed	Scheduled
086TK080	EFR	5 year primary inspection and seal gap measurement	4/05/2017	4/2022
		Annual visual inspection and secondary seal gap	Completed	Scheduled
086TK083	EFR	measurement	4/05/2017	4/2018
			Completed	Scheduled
086TK083	EFR	5 year primary inspection and seal gap measurement	4/10/2014	4/2019
		Annual visual inspection and secondary seal gap	Completed	Scheduled
086TK087	EFR	measurement	4/05/2017	4/2018
-			Completed	Scheduled
086TK087	EFR	5 year primary inspection and seal gap measurement	4/10/2013	4/2018
		Annual visual inspection and secondary seal gap	Completed	Scheduled
086TK088	EFR	measurement	4/06/2017	4/2018
			Completed	Scheduled
086TK088	EFR	5 year primary inspection and seal gap measurement	4/24/2013	4/2018
		Annual visual inspection and secondary seal gap	Completed	Scheduled
086TK150	EFR	measurement	4/03/2017	4/2018
			Completed	Scheduled
086TK150	EFR	5 year primary inspection and seal gap measurement	4/15/2014	4/2019

TANK	ROOF TYPE	ACTION	Past Date	SCHEDULED DATE
		Annual visual inspection and secondary seal gap	Completed	Scheduled
086TK151	EFR	measurement	4/03/2017	4/2018
			Completed	Scheduled
086TK151	EFR	5 year primary inspection and seal gap measurement	4/4/2013	4/2018
		Annual visual inspection and secondary seal gap	Completed	Scheduled
086TK152	EFR	measurement	4/03/2017	4/2018
000TK450	EED		Completed	Scheduled
086TK152	EFR	5 year primary inspection and seal gap measurement	4/13/2015	4/2020
086TK160	EFR	Annual visual inspection and secondary seal gap measurement	Completed 4/27/2017	Scheduled 4/2018
00011100	EFN	measurement	Completed	Scheduled
086TK160	EFR	5 year primary inspection and seal gap measurement	3/29/2017	3/2022
00011(100		Annual visual inspection and secondary seal gap	Completed	Scheduled
049TK586	EFR	measurement	8/7/17	8/2018
			Completed	Scheduled
049TK586	EFR	5 year primary inspection and seal gap measurement	8/7/2017	8/2022
···		Annual visual inspection and secondary seal gap	Completed	Scheduled
049TK587	EFR	measurement	7/31/2017	7/2018
			Completed	Scheduled
049TK587	EFR	5 year primary inspection and seal gap measurement	7/31/2017	7/2022
		Annual visual inspection and secondary seal gap	Completed	Scheduled
094B-7A East	EFR	measurement	5/24/2017	5/2018
		Annual visual inspection and secondary seal gap	Completed	Scheduled
094B-7B West	EFR	measurement	5/24/2017	5/2018
OCCTIVE S	IED	Annual developments	Completed	Scheduled
086TK015	IFR	Annual visual inspection	6/20/2017	6/2018
086TK017	IFR	Annual visual inspection	Completed 6/20/2017	Scheduled 6/2018
0001KU17	IFN	Annual visual inspection	Completed	Scheduled
086TK018	IFR	Annual visual inspection	6/20/2017	6/2018
000111010		7 i i i da viola i i opodicii	Completed	Scheduled
086TK026	IFR	Annual visual inspection	6/20/2017	6/2018
			Completed	Scheduled
086TK027	IFR	Annual visual inspection	6/20/2017	6/2018
			New seal	
		Initial anual visual inspection and secondary seal gap	installed	Scheduled
094TK064	EFR	measurement	during TA	3/2018
			New seal	
			installed	Scheduled
094TK064	EFR	Initial 5 year primary inspection and seal gap measurement	during TA	3/2018
00071/007	IED		Completed	Scheduled
086TK067	IFR	Annual visual inspection	6/15/2017	6/2018
ODCTKOOO	IED	Annual vioual inequation	Completed	Scheduled
086TK082	<u>IFR</u>	Annual visual inspection	6/21/2017 Completed	6/2018 Scheduled
086TK084	IFR	Annual visual inspection	6/15/2017	6/2018
550111007		7 militar florar mopositori	Completed	Scheduled
086TK085	IFR	Annual visual inspection	6/21/2017	6/2018
			Completed	Scheduled
086TK010	IFR	Annual visual inspection	7/6/2017	7/2018
			Completed	Scheduled
086TK013	IFR	Annual visual inspection	7/6/2017	7/2018

TANK	ROOF TYPE	ACTION	Past Date	SCHEDULED DATE
			Completed	Scheduled
086TK024	IFR	Annual visual inspection	7/5/2017	7/2018
			Completed	Scheduled
086TK025	IFR	Annual visual inspection	7/5/2017	7/2018
			Completed	Scheduled
086TK049	IFR	Annual visual inspection	7/6/2017	7/2018
		Annual visual inspection and secondary seal gap	Completed	Scheduled
086TK68	EFR	measurement	10/2/2017	4/2018
			Completed	Scheduled
086TK68	EFR	5 year primary inspection and seal gap measurement	10/2/2017	10/2022
			Completed	Scheduled
086TK065	IFR	Annual visual inspection	8/17/17	8/2018
			Completed	Scheduled
086TK086	IFR	Annual visual inspection	8/17/17	8/2018
		Annual visual inspection and secondary seal gap	Completed	Scheduled
094B-7A East	EFR	measurement	8/22/2017	8/2018
		Annual visual inspection and secondary seal gap	Completed	Scheduled
094B-7B West	EFR	measurement	8/22/2017	8/2018
		Annual visual inspection and secondary seal gap	Completed	Scheduled
94V49	EFR	measurement	10/18/2017	10/2018
			Completed	Scheduled
94V49	EFR	5 year primary inspection and seal gap measurement	10/29/2013	10/2018
		Annual visual inspection and secondary seal gap	Completed	Scheduled
094B-7A East	EFR	measurement	11/21/2017	11/2018
			Completed	Scheduled
094B-7A East	EFR	5 year primary inspection and seal gap measurement	11/9/2016	11/2021
		Annual visual inspection and secondary seal gap	Completed	Scheduled
094B-7B West	EFR	measurement	11/21/2017	11/2018
			Completed	Scheduled
094B-7B West	EFR	5 year primary inspection and seal gap measurement	11/9/2016	11/2021

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December 21, 2017

Minnesota Pollution Control Agency Air Quality Compliance Tracking Coordinator Industrial Unit 520 Lafayette Road North St. Paul, MN 55155-4194





To Whom It May Concern:

SUBJECT: HOOT LAKE PLANT – UNITS 3

MERCURY EMISSIONS PERFORMANCE TEST PLAN AND

NOTIFICATION OF INTENT TO CONDUCT A PERFORMANCE TEST

PERMIT No. 11100002-005

Enclosed is a mercury emissions test plan for Hoot Lake Plant Units 3. The purpose of this performance testing is to determine mercury emission levels at Hoot Lake Plant Unit 3 to satisfy both federal and state rules. Specifically, this test will demonstrate continued compliance with the Low Emitting EGU (LEE) requirements of 40 CFR Part 63 Subpart UUUUU (the Mercury and Air Toxics Standards Rule), and the test will also satisfy Minnesota Rule 7011.0561 Subpart 4.B, Subpart 5.B, and Subpart 9.

Please note that this testing will be over a 30 boiler operating day period under all process operating conditions, as required by § 63.10005(h)(3) and Minn. R. 7011.0561 Subp. 5(B)(1).

The test is scheduled to begin on January 10, 2018 for Unit 3. We regret that this submittal falls outside of the 30 day window in accordance with the filing and content requirements in Minn R. 7017.2030, subparts 1-3, and the notification requirement of § 63.10030(d).

Should you have any questions on the enclosed, please contact Alex Stalboerger at 218.739.8377 or ajstalboerger@otpco.com. We will also be in contact to set up a pre-test meeting as required by 7017.2030, subpart 4.

Sincerely,

Mark Thoma

Manager, Environmental Services

Enclosure

C: Mr. George Czerniak -- EPA Region V w/o